

**overview**

- 1920 × 1080 px
- Sony IMX290
- 1/2" CMOS
- 138 fps
- USB 3.0
- available



**technical data**

**sensor information**

sensor	Sony IMX290
resolution	1920 × 1080 px
exposure time	0,015 ... 60000 ms
pixel size	2.9 × 2.9 µm
shutter type	Rolling shutter Global reset shutter
sensor type	1/2" CMOS

**acquisition formats**

image formats, interface frame rate max.	Full Frame, 1920 × 1080 px, max. 138 fps Binning 2×2, 960 × 540 px, max. 138 fps Binning 2×1, 960 × 1080 px, max. 138 fps Binning 1×2, 1920 × 540 px, max. 138 fps
pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed

**image preprocessing**

analog controls	Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)
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**image preprocessing**

color models	Mono Raw Bayer RGB BGR
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**camera features**

synchronization	free running trigger
trigger sources	Hardware software
trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
internal image buffer	469 MB 79 images (Trigger Mode) 1 image (Free Running Mode)

**interfaces and connectors**

data interface	USB 3.0, Transfer Rate 5000 Mb/s/sec, Connector: USB 3.0 Micro B
process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
power supply	via USB 3.0 interface

**mechanical data**

lens mount	C-mount
width	29 mm
height	29 mm
depth	38 mm
weight	≤ 90 g
material	zinc die casting, nickel-plated, IP 40

**technical data**

**electrical data**

power consumption	approx. 2,8 W @ 138 fps
operating voltage	5 VDC (via USB3.0 interface)

**non-volatile memory**

flash memory size	128 kB
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**environmental conditions**

operating temperature	+5 ... +65 °C @ T = measurement point
humidity	10 ... 90 % (non-condensing)
protection class	IP 40

**digital I/Os**

lines	1 input line 1 output line 2 general purpose lines
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**conformity**

conformity	CE RoHS EAC
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**dimension drawing**

